

## Abstract

Internet access is provided over a digital cable television system using Internet protocol (IP) over MPEG digital video. Simultaneous Internet access and TV viewing is provided by an IP over MPEG-2 video system with channel tracking. Whenever a video channel change is detected, the viewer's Internet connection is routed from one video channel to another video channel so that the Internet connection is dynamically routed and tracks the channel changes made by the viewer. Additionally, if there is no available data carrying capacity in the video channel selected by the viewer (a "busy" condition), the Internet connection is routed to an out-of-band frequency. The Internet connection tracks the channel changes made by the viewer using a single tuner/digital MPEG decoder in the CATV settop box.